

# TJ 系列 SERIES



●全焊结构，确保可靠的电气接触性  
All-welded construction ensures reliable electrical contact

●急充放电用特殊设计  
Special design for heavy charge and discharge

●急充放电 100 万回保证(充电 0.8 秒、放电 1 毫秒)  
1000000 cycles of charge and discharge (0.8 second charge 1 ms discharge)

●应用：电焊机  
Applications: Electric welding machine

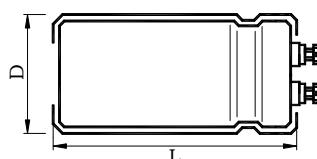
## ◆ 规格表 SPECIFICATIONS

项目 Items	特性 Characteristics			
工作温度范围 Operating Temperature Range	-25~+70°C			
额定工作电压范围 Rated Working Voltage Range	315~475V			
静电容量范围 Capacitance Range	100~2200 μF			
静电容量允许偏差 Capacitance Tolerance	-10~+50% (20°C, 120Hz)			
损耗角正切值 Dissipation Factor (MAX) 20°C, 120Hz	UR(V)	315	450	475
	tanδ	0.10		
漏电流 Leakage Current (MAX)	$I = 0.03C_RU_R$ 或 5mA 取小者 (20°C, 施加额定电压 5 分钟后) $I = 0.03C_RU_R$ or 5mA whichever is minimum. (at 20°C, After 5 minutes application of rated voltage) $I$ =漏电流 (μA) $U_R$ =额定电压 (V) $C_R$ =静电容量 (μF) Leakage Current      Rated Voltage      Rated Capacitance			

	急充放电 Heavy Charge and Discharge
产品寿命 Life Time	1000000 cycles
漏电流 Leakage Current	≤规定值 200% ≤200% of Specified value
损耗角正切值变化率 tanδ Change	≤规定值的 200% ≤200% of specified value
静电容量变化率 Capacitance Change	初始值±20%以内 Within±20% of initial value
施加条件 Condition 施加电压 Applied Voltage 充电时间 Duration of Charge 放电时间 Duration of Discharge 环境温度 Applied Temperature 失效率等级 Failure Rate Level	$U_R$ 0.8 seconds Time constant ( $\tau$ ) = 1 ms 40°C 0%

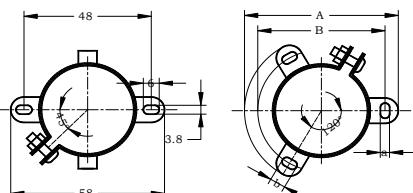
## ◆ 尺寸图 Dimensions

● 常用端子型式代码: Terminal Code



L-Type: Small terminal M5 thread  
S-Type: Large terminal M6 thread

Ring Clip: T (Φ35 Standard)    Ring Clip: S (Φ51~Φ89 Standard)



Ring Clip Dimensions:

ΦD	A	B	a	b
51	73.0	63.5	4.5	7
64	85.1	76.2	4.5	7
76	98.4	88.9	4.5	7
89	111.1	101.6	4.5	7

产品详细尺寸和公差请参照 P130  
For detailed dimension & tolerance, please refer to P130

● 记载以外的端子形状, 请另行咨询。Please consult to us for the terminal type not displayed in content.

## ◆ 产品编码体系 PART NUMBER SYSTEM

● 例如: Example TJ 475V225μF Φ51×110 -10~+50%

1 T	2 J	3 D	4 2	5 2	6 1	7 T	8 5	9 1	10 1	11 1	12 0	13 L	14 V	15 A	客户特殊要求 special requirement
															套管材质代号 Sleeve Code
															端子型式代码 Lead Form Code
															高度代码 (例: 110~110) The height of the code (mm)
															直径代码 (例: 51~51, 76~76) Diameter code (mm)
															容差代码 (例: -10~+50%→T) Capacitance Tolerance code
															容量代码 (例: 225~221, 1000~102) Capacitance Code (μF)
															电压代码 (例: 450V~E, 475V~D) Rated Voltage Code (V)
															产品系列代码 (例: TJ-TJ) Series Code

# TJ SERIES

## ◆产品一览表 Standard Ratings

WV <sub>DC</sub> (Surge Voltage) (V)	Cap ( $\mu$ F)	Size D×L (mm)	tanδ 20°C 120Hz	ESR <sub>Typ</sub> 20°C 120Hz mΩ	Catalog Part Number
315 (360)	330	35×100	0.10	120.6	TJI331T35100□VA
	470	51×100	0.10	84.7	TJI471T51100□VA
	1000	64×140	0.10	39.8	TJI102T64140□VA
	1500	76×120	0.10	26.5	TJI152T76120□VA
	2200	76×160	0.10	18.1	TJI222T76160□VA

WV <sub>DC</sub> (Surge Voltage) (V)	Cap ( $\mu$ F)	Size D×L (mm)	tanδ 20°C 120Hz	ESR <sub>Typ</sub> 20°C 120Hz mΩ	Catalog Part Number
450(500)	330	51×100	0.10	120.6	TJE331T51100□VA
	100	35×100	0.10	331.7	TJD101T35100□VA
	225	51×110	0.10	110.6	TJD221T51110□VA
	470	76×120	0.10	70.6	TJD471T76120□VA
	1000	76×145	0.10	39.8	TJD102T76145□VA

\*产品编码中□内为产品端子引出型式代码

\*□Enter the appropriate terminal code

\*记载之外的体积, 请另行咨询。

\*Please ask for advice for other sizes.

\*铝电解电容器由于承受纹波电流而发热, 随着温升而发生性能劣化。请在使用中降低产品承受的纹波电流。

\*Aluminum electrolytic capacitor will emit heat when ripple current is applied, the performance will deteriorate when temp. rises. Please reduce the ripple current when using capacitor.